

Product: WHEEL LOADER

Model: 992C WHEEL LOADER 42X

Configuration: 992C WHEEL LOADER 42X00001-UP (MACHINE) POWERED BY 3412 ENGINE

Disassembly and Assembly 3408E and 3412E Engines for Caterpillar Built Machines

Media Number -SEN1013-11

Publication Date -01/07/2015

Date Updated -22/08/2016

i02160179

Gear Group (Front) - Remove

SMCS - 1206-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Group	1

Start By:

- Remove the camshaft. Refer to Disassembly and Assembly, "Camshaft - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

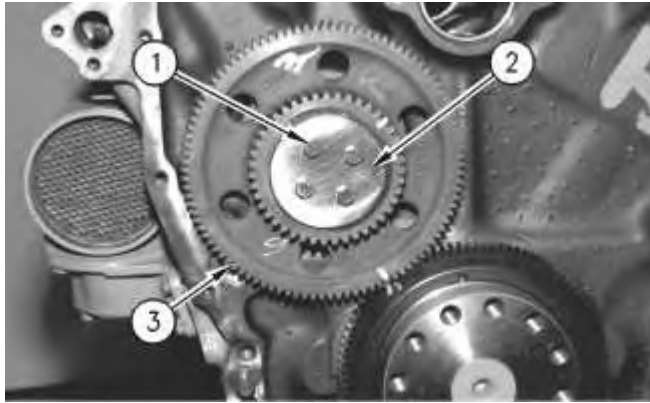


Illustration 1

g00577213

1. Align the timing mark on the idler gear with the timing mark on the crankshaft gear.
 2. Remove bolts (1) and plate (2).
 3. Remove idler gear (3).
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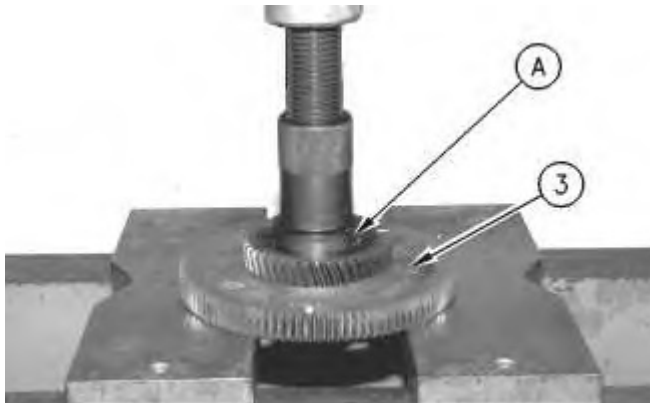


Illustration 2

g00577286

4. Remove the bearing from idler gear (3) with Tooling (A) and a suitable press.
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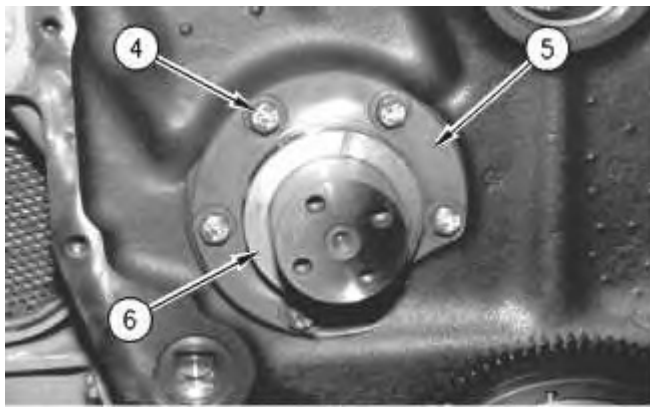


Illustration 3

g00577251

5. Remove thrust washer (6). Remove bolts (4) and shaft (5).

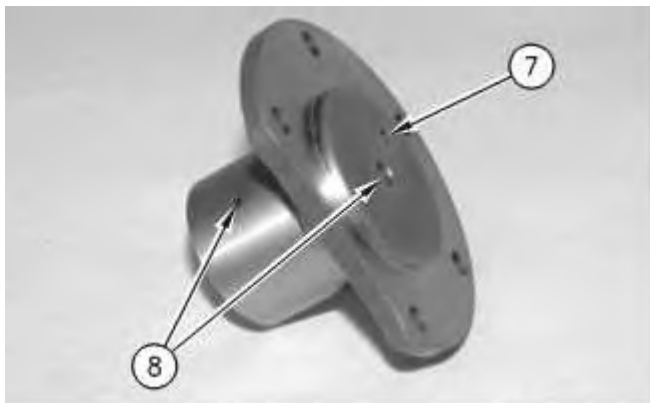


Illustration 4

g00577274

6. Drilled passage (7) and drilled passage (8) in the shaft must be free of obstructions.

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i02151029

Gear Group (Front) - Install

SMCS - 1206-012

Installation Procedure

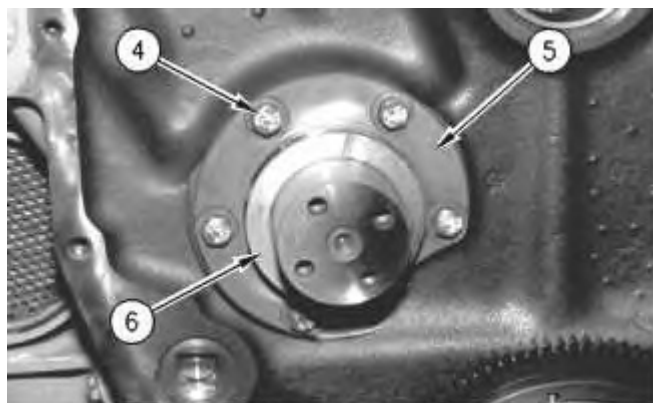
Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Group	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



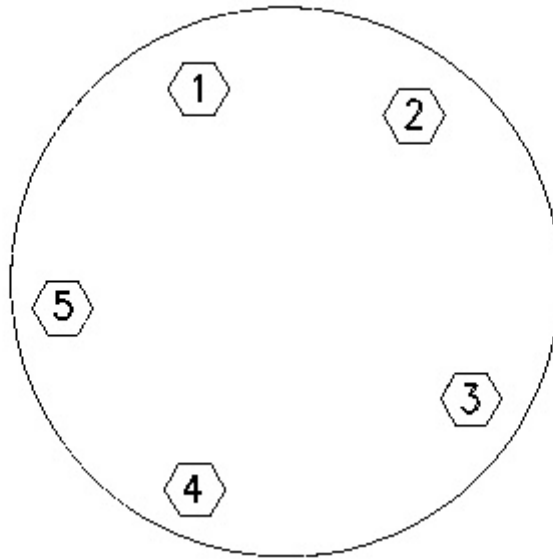


Illustration 2

g00537659

1. Place shaft (5) in position on the cylinder block and install bolts (4). Tighten bolts (4) to a torque of $55 \pm 10 \text{ N}\cdot\text{m}$ ($41 \pm 7 \text{ lb ft}$).

Tighten bolts (4) for the shaft in the following sequence. See Illustration 2 for the numbering of the bolts. ... 1,3,4,5,2,1,2,3,4,5,1

2. Install thrust washer (6) with the oil groove side toward the idler gear.

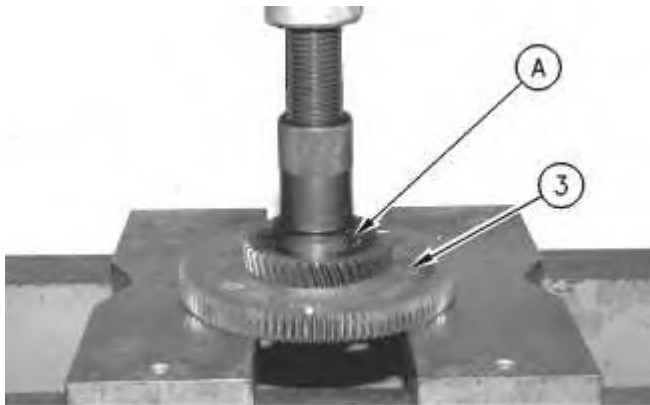


Illustration 3

g00577286

3. Lower the temperature of the bearing. Install the bearing in idler gear (3) with Tooling (A) and a suitable press. Install the bearing to a depth of $0.38 \pm 0.25 \text{ mm}$ ($0.015 \pm 0.010 \text{ inch}$).

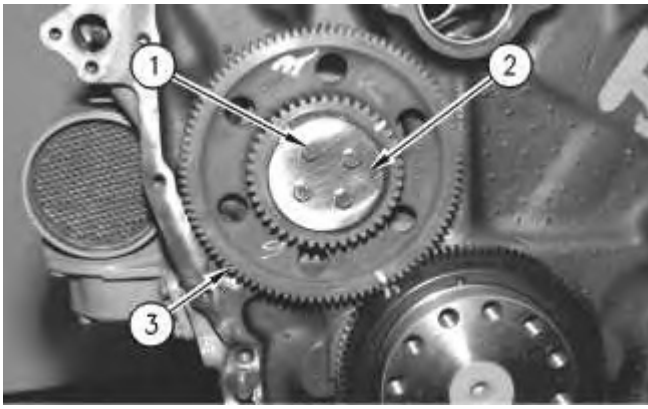


Illustration 4

g00577213

4. Apply clean engine oil to the shaft and to the inside diameter of idler gear (3). Install idler gear (3) on the shaft. Install plate (2) and bolts (1).

End By:

- a. Install the camshaft. Refer to Disassembly and Assembly, "Camshaft - Install".

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i02389879

Housing (Front) - Remove

SMCS - 1151-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	1

Start By:

- Remove the engine oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove and Install".
- Remove the water pump. Refer to Disassembly and Assembly, "Water Pump - Remove".
- Remove the crankshaft front seal. Refer to Disassembly and Assembly, "Crankshaft Front Seal - Remove".
- Remove the front cover. Refer to Disassembly and Assembly, "Front Cover - Remove".
- Remove the speed/timing sensors. Refer to Disassembly and Assembly, "Speed/Timing Sensor - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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